Surf Site Monitoring Results Bamburas to Kapua Channnel Clean Water Branch, DOH May 2, 2006

Colony Forming Units/100mL

Surf Site	<u>Time</u>	Enterococci	C. perfringens	Salinity
Bamburas (s)*	7:15 am	2.3	1	NA
Bamburas (b)**	7:15 am	2.3	<1	NA
Ala Moana Bowls (s)	8:00 am	53	7	33.05
Ala Moana Bowls (b)	8:00 am	2.3	4	34.73
Rockpile (s)	8:05 am	2.3	2	34.44
Rockpile (b)	8:05 am	2.3	2	34.80
Kaisers (s)	8:10 am	2.3	1	34.74
Kaisers (b)	8:10 am	2.3	2	34.87
Fours (s)	8:15 am	2.3	3	34.97
Fours (b)	8:15 am	2.3	1	35.02
Poplars (s)	8:20 am	2.3	<1	34.96
Poplars (b)	8:20 am	2.3	1	35.09
Canoes (s)	8:25 am	2.3	<1	35.05
Canoes (b)	8:25 am	2.3	1	35.03
Queens (s)	8:30 am	2.3	1	35.05
Queens (b)	8:30 am	2.3	<1	35.04
Publics (s)	8:35 am	10	2	35.05
Publics (b)	8:35 am	2.3	<1	35.01
Kapua Channel (s)	8:40 am	2.3	1	35.10
Kapua Channel (b)	8;40 pm	2.3	2	35.09

^{*}surface **8 foot depth

Results of Analyses Wastewater Spill Monitoring – Beachwalk SPS Spill (Shoreline Stations) May 4, 2006

Samples collected Wednesday, May 3, 2006 (41st day): Spill reported on March 24, 2006. NPDES Permit No. HI 0020117.

	Collection	Bacterial Counts / 100 mL				
<u>Station</u>	<u>Time</u>	Fecal Coliformiv	Enterococci ^v	C. perfringens ^{vi}	Salinity	
Magic Island Finger	7:40 A.M.	20	16	12	31.8	
Ala Moana Canoe Launch Ramp	7:33 A.M.	73	68	15	24.6	
Magic Island Lagoon	7:43 A.M.	1	1	4	34.3	
Ala Wai Harbor Boat Launch Ramp	7:52 A.M.	90	140	21	18.2	
Hilton Lagoon	7:58 A.M.	1	< 1	3	33.8	
Hale Koa Hotel	8:21 A.M.	26	4	7	33.7	
Halekulani- Sheraton	8:36 A.M.	> 60	1	3	34.0	
Moana Hotel	8:47 A.M.	54	50	< 1	34.3	
Kapahulu Groin	8:54 A.M.	1	2	< 1	33.9	
Queen's Surf Beach	8:58 A.M.	< 1	7	< 1	34.6	
Natatorium	9:08 A.M.	< 1	< 1	< 1	34.2	

Weather: Partly cloudy

Results of Analyses

Wastewater Spill Monitoring - Beachwalk SPS Spill

May 4, 2006

Samples collected Wednesday, May 3, 2006 (41st day): Spill reported on March 24, 2006. NPDES Permit No. HI 0020117.

	Collection	<u>Bacte</u>			
<u>Station</u>	<u>Time</u>	Fecal Coliform ⁴	Enterococci ⁵	C. perfringens ⁶	<u>Salinity</u>
Date StUpstream	10:00 A.M.	700	860	40	0.4
Seaside Ave Upstream	9:29 A.M.	210	90	10	12.3
Kaiolu StSpill site	9:33 A.M.	210	80	10	11.4
McCully St. Bridge.	9:43 A.M.	640	500	27	6.5
Ala Moana Blvd. Bridge	9:48 A.M.	450	210	25	18.3

Weather: Overcast.

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⁴ APHA, AWWA, WEF, Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, Membrane Filter Method for Fecal Coliform.

⁵ Improved Enumeration Methods for the Recreational Water Quality Indicators: Enterococci and *Escherichia coli*, EPA/821/R-97/004, March 2000, Membrane Filter Method 1600 for Enterococci. ⁶ Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

Results of Analyses

Wastewater Spill Monitoring – Kaneohe PTF Spill

May 4, 2006

Samples collected Wednesday, May 3, 2006 (33rd day): Spill reported on March 31, 2006. NPDES Permit No. HI 0021296.

	Collection	Bacterial Counts / 100 mL				
<u>Station</u>	<u>Time</u>	Fecal Coliform ⁴	Enterococci ⁵	C. perfringens ⁶	<u>Salinity</u>	
Kaneohe PTF-spill site	8:35 A.M.	1,600	700	15	2.4	
Upstream-Kawa Stream	8:22 A.M.	3,000	800	21	< 0.1	
Mahalani Circle	8:50 A.M.	38	12	19	31.1	
Mikiola DrRoW	8:11 A.M.	24	11	5	32.6	

Weather: Partly cloudy.

⁴ APHA, AWWA, WEF, Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, Membrane Filter Method for Fecal Coliform.

⁵ Improved Enumeration Methods for the Recreational Water Quality Indicators: Enterococci and *Escherichia coli*, EPA/821/R-97/004, March 2000, Membrane Filter Method 1600 for Enterococci. ⁶ Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.